

CLAIMS

1. A plasma display panel in which a protective layer covers a dielectric layer covering electrodes in discharge cells and faces a discharge space
5 filled with a discharge gas, wherein

the discharge gas includes at least one selected from the group consisting of Xe and Kr, and

in the protective layer, an electron band including at least electrons having energy level of 4 eV or less below a vacuum level is
10 formed within a forbidden band in energy bands.

2. The plasma display panel of Claim 1, wherein

the protective layer emits photoelectrons by energy of 4 eV or less obtained through light.

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3. The plasma display panel of Claim 2, wherein

the protective layer is mainly composed of magnesium oxide.

4. The plasma display panel of Claim 3, wherein

20 at least one selected from the group consisting of Group III, Group IV and Group VII elements is added to the magnesium oxide.

5. The plasma display panel of Claim 3, wherein

one element selected from the group consisting of Ge and Sn is
25 added to the magnesium oxide.

6. The plasma display panel of one of Claims 3, 4 and 5, wherein
the magnesium oxide includes an oxygen deficit.

7. A plasma display panel in which a protective layer covers a dielectric layer covering electrodes in discharge cells and faces a discharge space filled with a discharge gas, wherein

5 the discharge gas includes at least Kr, and

 in the protective layer, an electron band at least including electrons having energy level of 5 eV or less below a vacuum level is formed within a forbidden band in energy bands.

10 8. The plasma display panel of Claim 7, wherein

 the protective layer emits photoelectrons by energy of 5 eV or less obtained through light.

9. The plasma display panel of Claim 8, wherein

15 the protective layer is mainly composed of magnesium oxide.

10. The plasma display panel of Claim 9, wherein

 at least one selected from the group consisting of Group III, Group IV and Group VII elements is added to the magnesium oxide.

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11. The plasma display panel of Claim 9, wherein

 one element selected from the group consisting of Ge and Sn is added to the magnesium oxide.

25 12. The plasma display panel of one of Claims 10 and 11, wherein

 the magnesium oxide includes an oxygen deficit.